

# Section 7

## Alcohol and Other Drug-Related Total Crashes, Injury Crashes and Fatal Crashes, 2001

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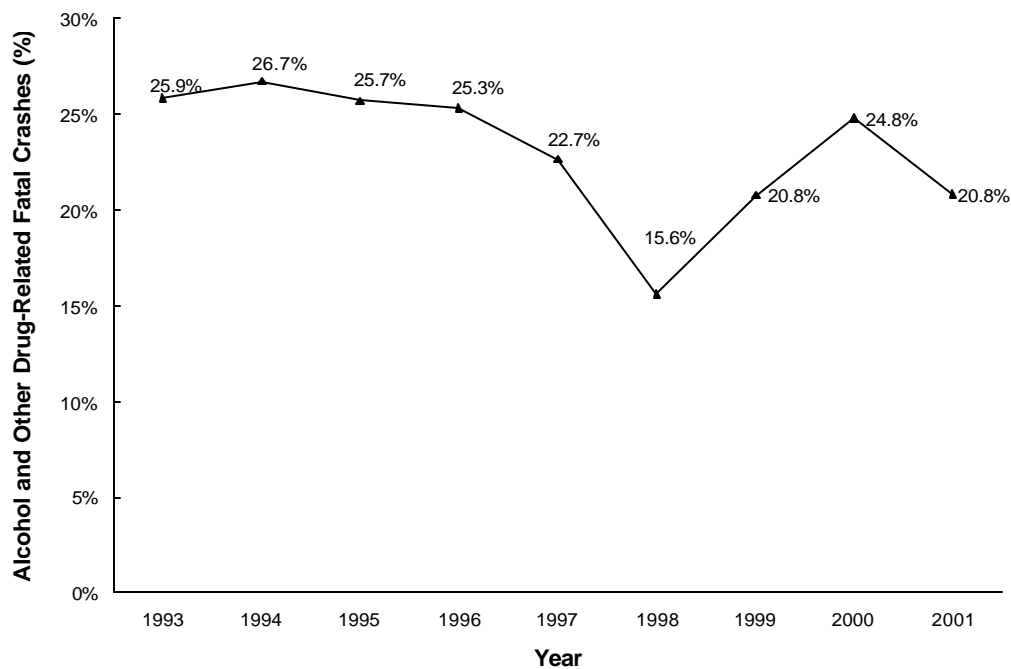
# Alcohol and Other Drug-Related Fatal Crashes and Fatalities 1993-2001

For the past nine years, the percentage of alcohol and other drug-related fatal motor vehicle crashes and fatalities has remained fairly consistent at approximately a quarter of all fatal crashes. The percentage of alcohol and other drug-related fatal motor vehicle crashes dropped to an all time low of 15.6% in 1998 (Table 7.01 and Figure 7.01). In 2001 there was a 32% decrease in fatal alcohol and other drug-related crashes and crash fatalities from the previous year.

Table 7.01 Alcohol and Other Drug-Related (A/D) Fatal Crashes and Fatalities, Utah 1993 - 2001

Year	Fatal Crashes			Fatalities		
	Total Number	Number A/D	Percentage A/D	Total Number	Number A/D	Percentage A/D
1993	263	68	25.9%	303	74	24.4%
1994	303	81	26.7%	343	94	27.4%
1995	284	73	25.7%	325	84	25.8%
1996	292	74	25.3%	328	86	26.2%
1997	309	70	22.7%	366	88	24.0%
1998	308	48	15.6%	350	49	14.0%
1999	318	66	20.8%	360	72	20.0%
2000	318	79	24.8%	373	90	24.1%
2001	259	54	20.8%	292	61	20.9%

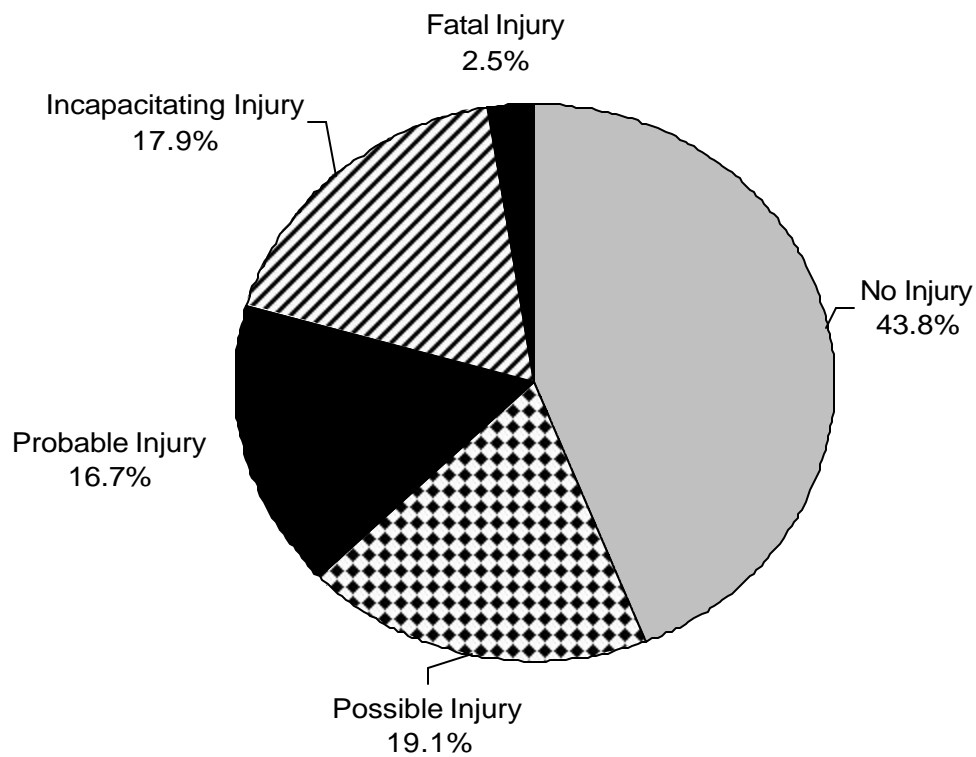
Figure 7.01 Alcohol and Other Drug-Related Fatal Crashes, Utah 1993 - 2001



# Alcohol and Other Drug-Related Crash Severity

Over half (56.2%) of alcohol and other drug-related crashes (Figure 7.02). resulted in at least one injury compared to 37.2% of all motor vehicle crashes (Figure 1.03). The percentage of alcohol and drug-related crashes that resulted in a fatality was 2.5% compared to 0.5% of all motor vehicle crashes.

Figure 7.02 Severity of Alcohol and Other Drug-Related Crashes as Reported by Police, Utah 2001 (n=2,144)



# Alcohol and Other Drug-Related Crashes by County

Table 7.02 shows the number of alcohol and other drug-related crashes by county. The leading counties for total alcohol and other drug-related crashes per million vehicle miles traveled were Weber, Salt Lake, and Piute and the leading counties for injury alcohol and other drug-related crashes per miles traveled were Piute, Weber, and Wayne. The highest rates for fatal alcohol and other drug-related crashes per miles traveled were in Wasatch, Uintah, and Kane Counties.

Table 7.02 Alcohol and Other Drug-Related (A/D) Total Crashes, Injury Crashes and Fatal Crashes by County, Utah 2001

County	A/D Total Crashes			A/D Injury Crashes			A/D Fatal Crashes		
	#	Rate per 10,000 Population	Rate per 100 MVT	#	Rate per 10,000 Population	Rate per 100 MVT	#	Rate per 100,000 Population	Rate per 1,000 MVT
Beaver	9	12.8	4.0	7	9.9	3.1	0	0.0	0.0
Box Elder	27	6.2	2.9	16	3.7	1.7	5	11.5	5.4
Cache	50	5.3	6.3	24	2.5	3.0	2	2.1	2.5
Carbon	19	8.2	5.6	11	4.8	3.3	1	4.3	3.0
Daggett	2	23.1	7.8	1	11.5	3.9	0	0.0	0.0
Davis	112	4.7	5.1	54	2.3	2.5	3	1.3	1.4
Duchesne	25	17.3	12.5	14	9.7	7.0	0	0.0	0.0
Emery	18	15.8	5.0	8	7.0	2.2	2	17.5	5.6
Garfield	7	14.5	5.2	3	6.2	2.2	1	20.8	7.4
Grand	22	19.0	7.8	12	10.4	4.2	2	17.3	7.1
Iron	32	9.1	5.5	20	5.7	3.4	0	0.0	0.0
Juab	15	18.0	4.0	11	13.2	2.9	1	12.0	2.7
Kane	9	11.7	7.3	6	7.8	4.9	1	13.0	8.1
Millard	11	8.4	2.6	8	6.1	1.9	0	0.0	0.0
Morgan	9	12.7	7.5	3	4.2	2.5	0	0.0	0.0
Piute	4	23.6	12.6	3	17.7	9.4	0	0.0	0.0
Rich	1	5.3	2.3	1	5.3	2.3	0	0.0	0.0
Salt Lake	1,010	11.4	13.1	537	6.0	7.0	12	1.3	1.6
San Juan	11	8.0	3.8	4	2.9	1.4	2	14.6	6.9
Sanpete	26	11.4	11.6	15	6.6	6.7	0	0.0	0.0
Sevier	26	13.0	6.5	11	5.5	2.8	1	5.0	2.5
Summit	42	14.4	6.5	27	9.3	4.2	0	0.0	0.0
Tooele	72	20.0	9.5	41	11.4	5.4	3	8.3	4.0
Uintah	29	11.5	9.6	16	6.4	5.3	4	15.9	13.2
Utah	229	6.5	7.3	125	3.5	4.0	3	0.8	1.0
Wasatch	22	14.8	8.4	7	4.7	2.7	6	40.4	22.9
Washington	82	9.1	8.8	51	5.7	5.5	0	0.0	0.0
Wayne	5	18.8	11.9	3	11.3	7.2	0	0.0	0.0
Weber	218	11.2	14.5	113	5.8	7.5	5	2.6	3.3
Statewide	2,144	9.7	9.2	1,152	5.2	4.9	54	2.4	2.3

# Alcohol and Other Drug-Related Crash Times

Table 7.03 and Figure 7.03 show that the total alcohol and other drug-related crashes and injury crashes followed the same time pattern, peaking in late evening and early morning hours (9 p.m. to 2 a.m.). Fatal alcohol and other drug-related crashes followed a slightly different pattern; most of these crashes occurred in the evening (5 p.m. to 9 p.m.).

Table 7.03 Hour of Alcohol and Other Drug-Related (A/D) Total Crashes, Injury Crashes and Fatal Crashes, Utah 2001

Hour	A/D Total Crashes		A/D Injury Crashes		A/D Fatal Crashes	
	#	%	#	%	#	%
12 a.m.	165	7.7%	88	7.6%	3	5.4%
1 a.m.	175	8.2%	90	7.8%	3	5.4%
2 a.m.	114	5.3%	58	5.0%	2	3.6%
3 a.m.	73	3.4%	29	2.5%	2	3.6%
4 a.m.	42	2.0%	20	1.7%	5	8.9%
5 a.m.	49	2.3%	33	2.9%	1	1.8%
6 a.m.	42	2.0%	21	1.8%	1	1.8%
7 a.m.	42	2.0%	25	2.2%	0	0.0%
8 a.m.	32	1.5%	18	1.6%	0	0.0%
9 a.m.	28	1.3%	17	1.5%	1	1.8%
10 a.m.	37	1.7%	18	1.6%	2	3.6%
11 a.m.	30	1.4%	16	1.4%	2	3.6%
12 p.m.	37	1.7%	24	2.1%	0	0.0%
1 p.m.	42	2.0%	23	2.0%	1	1.8%
2 p.m.	46	2.1%	24	2.1%	2	3.6%
3 p.m.	65	3.0%	40	3.5%	1	1.8%
4 p.m.	102	4.8%	56	4.9%	1	1.8%
5 p.m.	141	6.6%	73	6.3%	5	8.9%
6 p.m.	145	6.8%	73	6.3%	2	3.6%
7 p.m.	125	5.8%	69	6.0%	6	10.7%
8 p.m.	137	6.4%	78	6.8%	4	7.1%
9 p.m.	185	8.6%	107	9.3%	6	10.7%
10 p.m.	147	6.8%	81	7.0%	2	3.6%
11 p.m.	144	6.7%	71	6.2%	3	5.4%
Missing	1	0.0%	0	0.0%	1	1.8%
Grand Total	2,146	100.0%	1152	100.0%	56	100.0%

Figure 7.03 Hour of Alcohol and Other Drug-Related (A/D) Injury Crashes and Fatal Crashes, Utah 2001 (See Table 7.03 for values)

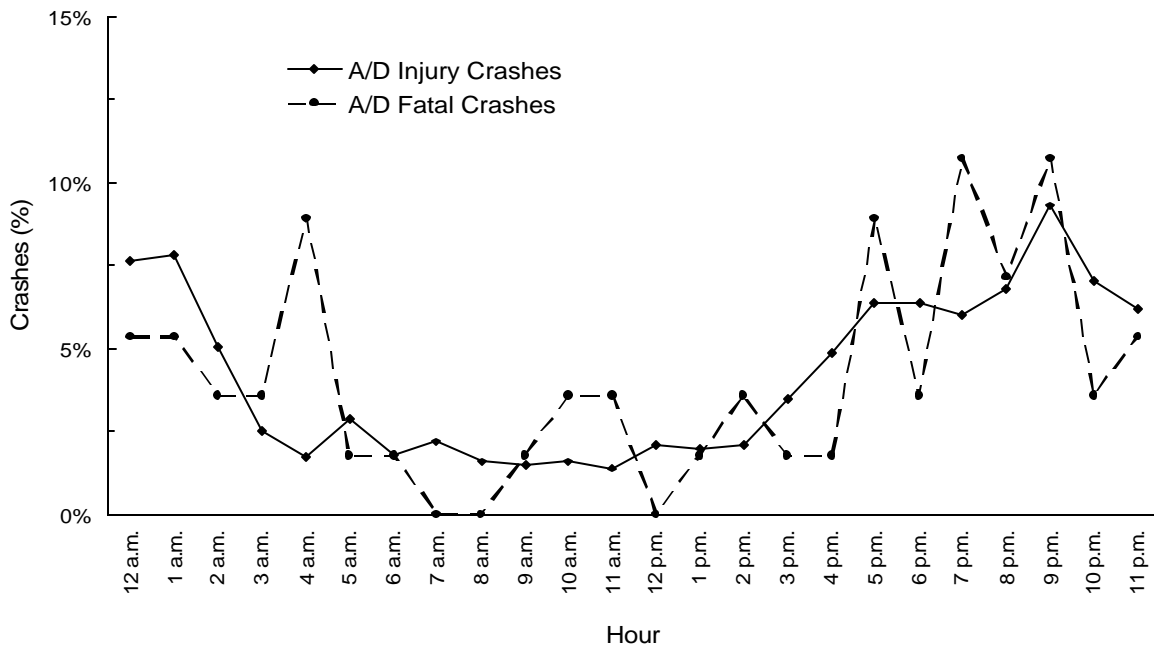


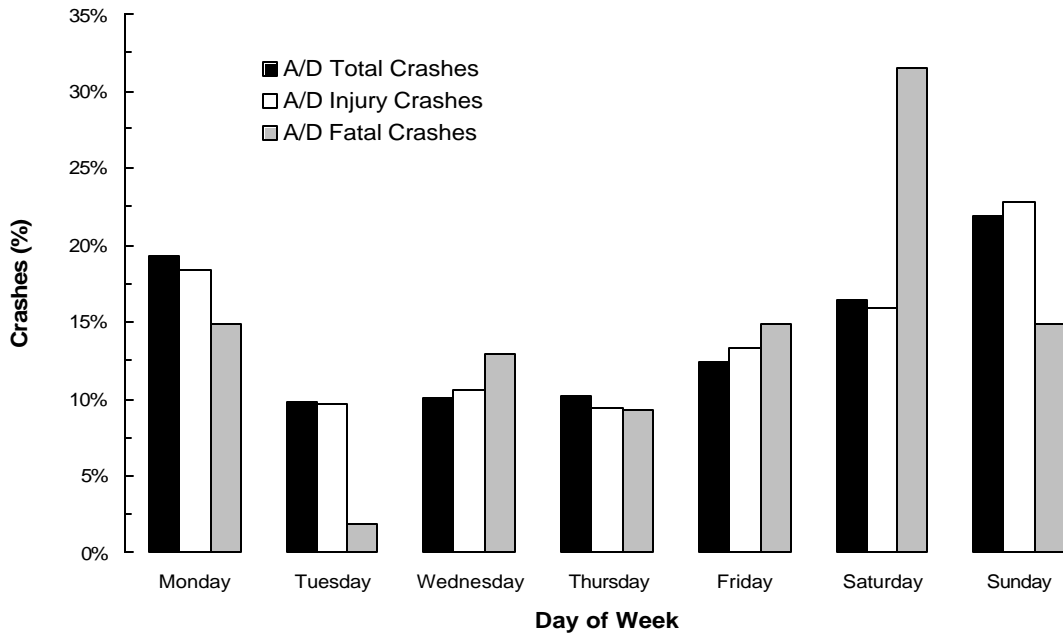
Table 7.04 shows the number and rate per day of alcohol and other drug-related crashes for each month. The rates remained similar from month to month. The highest percentage of total alcohol and other drug-related total crashes, and injury crashes occurred in August. The highest percentage of fatal alcohol and other drug-related crashes occurred in July.

Table 7.04 Month of Alcohol and Other Drug-Related (A/D) Crashes, Injury Crashes and Fatal Crashes, Utah 2001

Month	A/D Total Crashes		A/D Injury Crashes		A/D Fatal Crashes	
	#	Rate per Day	#	Rate per Day	#	Rate per Day
January	166	5.35	81	2.61	4	0.13
February	120	4.29	62	2.21	4	0.14
March	181	5.84	100	3.23	5	0.16
April	189	6.30	113	3.77	2	0.07
May	184	5.94	103	3.32	4	0.13
June	172	5.73	90	3.00	4	0.13
July	187	6.03	107	3.45	8	0.26
August	212	6.84	115	3.71	7	0.23
September	172	5.73	100	3.33	5	0.17
October	192	6.19	103	3.32	6	0.19
November	171	5.70	92	3.07	4	0.13
December	198	6.39	86	2.77	1	0.03
Grand Total	2,144	5.87	1,152	3.16	54	0.15

Figure 7.04 and Table 7.05 show that almost one-quarter of the total alcohol and other drug-related total crashes (21.9%) and injury crashes (22.8%) occurred on Sunday. Almost one-third (31.5%) for fatal alcohol and other drug-related crashes occurred on Saturday.

Figure 7.04 Day of Week for Alcohol and Other Drug-Related (A/D) Total Crashes, Injury Crashes and Fatal Crashes, Utah 2001



Note: The above graph is based on percentages for the different crash categories. To read the above graph, look at one category across the days of the week. For example, look at only the white bars (i.e. alcohol and other drug-related injury crashes) from day to day. Do not compare the heights of the different crash categories for a specific day.

Table 7.05 Day of Week for Alcohol and Other Drug-Related (A/D) Total Crashes, Injury Crashes and Fatal Crashes, Utah 2001

Day of Week	A/D Total Crashes		A/D Injury Crashes		A/D Fatal Crashes	
	#	%	#	%	#	%
Monday	412	19.2%	211	18.3%	8	14.8%
Tuesday	211	9.8%	111	9.6%	1	1.9%
Wednesday	216	10.1%	121	10.5%	7	13.0%
Thursday	218	10.2%	109	9.5%	5	9.3%
Friday	266	12.4%	153	13.3%	8	14.8%
Saturday	351	16.4%	184	16.0%	17	31.5%
Sunday	470	21.9%	263	22.8%	8	14.8%
Grand Total	2,144	100.0%	1,152	100.0%	54	100.0%

# Impaired Drivers Involved in Alcohol and Other Drug-Related Crashes

Male drivers were involved in over three-quarters (79.8%) of alcohol and other drug-related crashes. The largest number of total alcohol and other drug-related total crashes and injury crashes involved male drivers in the age range of 20 to 24 years. This age group also represented the largest number of female drivers involved in alcohol and other drug-related total crashes, and injury crashes. Male drivers aged 20 to 24 years represented the greatest number of drivers involved in fatal alcohol and other drug-related crashes. Of the impaired drivers, 347 (16.1%) were under the age of 21 years, and 76 (3.5%) were under the age of 18 years.

Table 7.06 Gender and Age of Impaired Drivers Involved in Alcohol and Other Drug-Related (A/D) Total Crashes, Injury Crashes and Fatal Crashes, Utah 2001

Age	A/D Total Crashes				A/D Injury Crashes				A/D Fatal Crashes			
	Male Drivers		Female Drivers		Male Drivers		Female Drivers		Male Drivers		Female Drivers	
	#	%	#	%	#	%	#	%	#	%	#	%
<15	2	0.1%	0	0.0%	0	0.0%	1	0.4%	0	0.0%	0	0.0%
15 - 19	201	11.7%	53	12.2%	105	11.5%	32	13.0%	4	10.0%	1	8.3%
20 - 24	407	23.7%	86	19.8%	219	23.9%	45	18.2%	10	25.0%	3	25.0%
25 - 29	272	15.8%	55	12.6%	154	16.8%	37	15.0%	8	20.0%	0	0.0%
30 - 34	204	11.9%	44	10.1%	103	11.3%	32	13.0%	2	5.0%	3	25.0%
35 - 39	177	10.3%	61	14.0%	104	11.4%	30	12.1%	4	10.0%	1	8.3%
40 - 44	176	10.3%	53	12.2%	77	8.4%	30	12.1%	5	12.5%	2	16.7%
45 - 49	106	6.2%	39	9.0%	55	6.0%	20	8.1%	1	2.5%	1	8.3%
50 - 54	74	4.3%	21	4.8%	46	5.0%	7	2.8%	3	7.5%	1	8.3%
55 - 59	30	1.7%	9	2.1%	15	1.6%	6	2.4%	1	2.5%	0	0.0%
60 - 64	15	0.9%	4	0.9%	11	1.2%	3	1.2%	1	2.5%	0	0.0%
65 - 69	16	0.9%	2	0.5%	6	0.7%	1	0.4%	1	2.5%	0	0.0%
70 - 74	5	0.3%	1	0.2%	4	0.4%	1	0.4%	0	0.0%	0	0.0%
75 - 79	7	0.4%	3	0.7%	3	0.3%	2	0.8%	0	0.0%	0	0.0%
80 - 84	1	0.1%	2	0.5%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
85 +	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
Missing	24	1.4%	2	0.5%	13	1.4%	0	0.0%	0	0.0%	0	0.0%
Grand Total	1,717	100.0%	435	100.0%	915	100.0%	247	100.0%	40	100.0%	12	100.0%

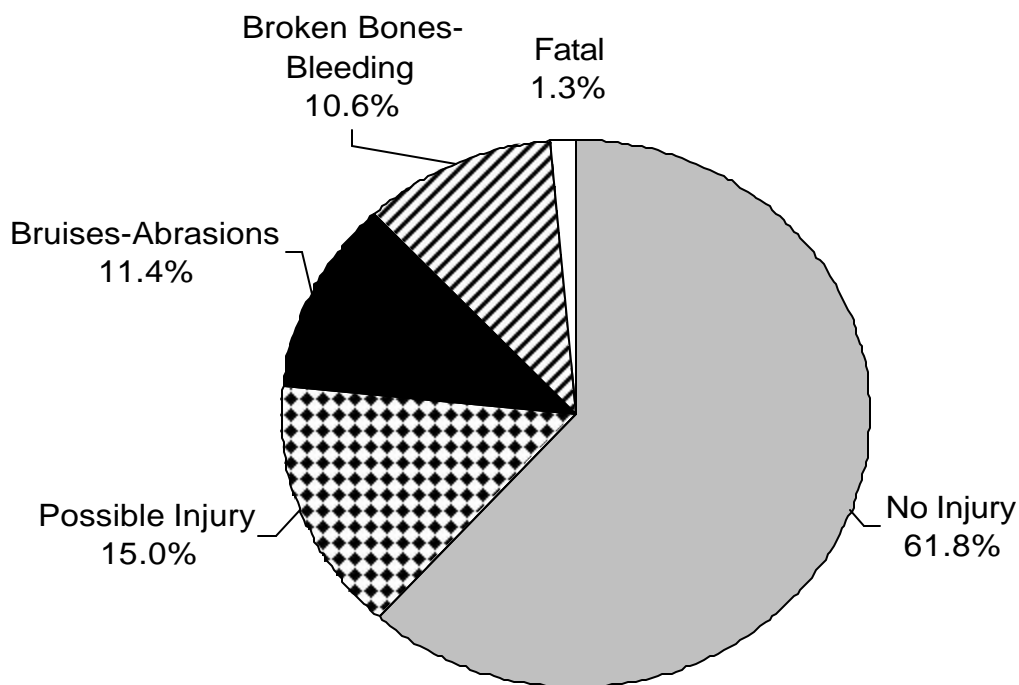
Note: There were alcohol and other drug-related crashes that involved two impaired drivers, and gender or age was missing for several of the impaired drivers. There were 2 alcohol or other drug impaired pedestrians involved in crashes. The information about the drivers involved in the alcohol or other drug impaired pedestrian crashes is not included in the above table.



# Alcohol and Other Drug-Related Crash Participants Injury Severity

Alcohol and other drug-related crash participants sustained a higher percentage (38.2%) of injury (Figure 7.05) compared to 21.5% for all motor vehicle crash participants (Figure 2.03). In addition, a higher percentage of the alcohol and other drug-related crash participants died (1.3%), compared to all motor vehicle crash participants (0.2%).

Figure 7.05 Alcohol and Other Drug-Related Crash Participants Injury Severity as Reported by Police, Utah 2001 (n=4,767)



# Blood Alcohol Concentration Levels of Drivers Involved in Fatal Alcohol-Related Crashes

Figure 7.06 shows the blood alcohol concentration (BAC) levels of drivers involved in fatal alcohol-related crashes. The majority (84.8%) of drivers had blood alcohol levels at or above the legal limit of 0.08%. In fact, 19.5% of the fatal alcohol-related crashes involved a driver with a blood alcohol concentration level over 0.20%.

Figure 7.06 Blood Alcohol Concentration (BAC) Levels of Drivers Involved in Fatal Alcohol-Related Crashes, Utah 2000 (n=46)

